

SECRET

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AIR

This document was
 dispatched as Item _____
 in Pouch C-8900
 on 10 July 59

: Chief, []

: Chief, KUCIUS

- Engineering
- Transmitter Adaptor, TA-1C

Please Return To
Engineering Staff

R&D : []

1. Returned herewith are the two corrected prototypes of the TA-1C forwarded by the reference.

2. Also attached are the results of our power output measurements as compared with those sent to us in the reference. Generally speaking, from the results obtained at Headquarters, this improved TA-1C compares favorably with the original TA-1 in so far as power output is concerned. The Headquarters measurements were made by a different method from the method used by []. We used a Weston Type 425 RF milliammeter and locally constructed dummy loads in order to minimize reactance at the higher frequencies. Otherwise test procedures appeared to be the same. Several objectionable features which may or may not be correctible were also noted:

- a. The antenna tuning indicator lamp does not light when doubling (H1 band) using a 623 ohm load.
- b. Hand effects are noticeable and cause detuning of the transmitter particularly on the H1 band. This condition is also a characteristic of the earlier TA-1 model.
- c. The tuning coil does not fit securely in the coil socket. This defect causes the transmitter to operate intermittently as well as affects the tuning of the transmitter with respect to maximum power output.

Chief, OC-ED

OC-TIT

Acting Chief, OC-E

CONFIDENTIAL

DOC	2	REV DATE	3-12-80	BY	008632
ORIG COMP		CDI		TYPE	
ORIG CLASS	5	PAGES	3	REV BY	C
JUST	22	NEXT REV	2010	ANAL	MR 13-2

Page 2

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3. If the defect "b" above can be minimized and defects "a" and "c" eliminated, we believe that the TA-1C can be considered an acceptable equipment and recommend that they be accepted.

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Enclosures:

1. Prototypes of TA-1C (2)
 2. Power output measurements results (1)
 3. Property transfer #CV-2197-59
- 30 June 1959 (7)

Distribution:

Original and 2 - EUSA, w/encls

- 1 - OC/RC
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slm
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